



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

DOT-E 7946
(FIFTH REVISION)

JUN 18 2001

EXPIRATION DATE: May 31, 2003

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Imaging & Sensing Technology Corporation
Horseheads, New York
2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain non-DOT Specification containers described in paragraph 7 below for the transportation in commerce of the hazardous materials described in paragraph 6 below. This exemption provides no relief from any regulation other than as specifically stated herein.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR §§ 173.302, 173.306(b)(4), 175.3.
5. BASIS: This exemption is based on the application of Imaging & Sensing Technology Corporation dated May 15, 2001, submitted in accordance with § 107.109 and supplemental information dated June 7, 2001.
6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous materials description -- proper shipping name	Hazard Class/ Division	Identi- fication Number	Packing Group
Argon compressed	2.2	UN1006	N/A
Helium compressed	2.2	UN1046	N/A
Nitrogen compressed	2.2	UN1066	N/A
Xenon	2.2	UN2036	N/A

JUN 18 2001

7. SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a non-DOT specification, non-refillable packaging described as a radiation detector, consisting of a stainless steel or aluminum pressure vessel with plugged and welded openings at both ends, having 45 cubic inches capacity, and charged to a pressure not exceeding 160 psig at 70°F. Detector assembly must comply with Imaging & Sensing Technology Corporation's Process Specification NO. 899-157, Rev. 5 and subsequent revisions (equates to level A of Military Specification MIL-P-23199C). Burst to charged pressure ratios (safety factor) must not be less than 4 to 1 at 200°F provided the sealing procedure is proven by a leak test at least 1-1/2 times the charge pressure. A leakage test on one out of each 100 pressure vessels is acceptable. A prototype testing of at least 3 representative samples is acceptable in lieu of lot testing.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. MARKING - Each outside packaging must be marked "DOT-E 7946".

d. Radiation detectors must be shipped in strong outside wood packagings complying with Imaging & Sensing Technology Corporation's Specification NO. 821-35001.

e. Shipments are not subject to 49 CFR Subpart E (except when offered for transportation by air) and F of Part 172; Part 174 except § 174.24; and Part 177, except § 177.817.

JUN 18 2001

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo vessel, cargo only aircraft, and passenger aircraft.

10. MODAL REQUIREMENTS:

A current copy of this exemption must be carried aboard each cargo vessel, aircraft or motor vehicle used to transport packages covered by this exemption. The shipper must furnish a current copy of this exemption to the air carrier before or at the time the shipment is tendered.

11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

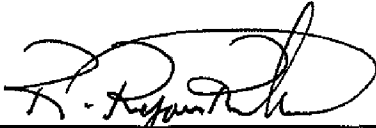
No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable.

JUN 18 2001

(Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incidents involving the package and shipments made under the terms of this exemption.

Issued in Washington, D.C.:



for Robert A. McGuire
Associate Administrator
for Hazardous Materials Safety

JUN 18 2001

(DATE)

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Research and Special Programs Administration, Department of Transportation, Washington, D.C. 20590.
Attention: DHM-31.

The original of this exemption is on file at the above office. Photo reproductions and legible reductions of this exemption are permitted. Any alteration of this exemption is prohibited.

Copies of exemptions may be obtained from the AAHMS, U.S. Department of Transportation, 400 7th Street, S.W., Washington, DC 20590-0001, Attention: Records Center, 202-366-5046.

PO: sln